

PD-1



DEVICE

Linear InGaAs PIN Photodiode, 1 GHz

OVERVIEW

The Optilab PD-1 provides the proven high performance of our photodiode technology in a very practical, cost-effective package. The PD-1 features very high linearity and low capacitance over a 1GHz bandwidth. These broadband photodiodes are housed in a small, environmentally rugged coaxial package. The PD-1 is designed to provide performance and flexibility needed to meet the expanding applications of two ways communications networks. Contact Optilab for more details

FEATURES

- 1 GHz Bandwidth
- Low Capacitance
- High Responsivity
 - > 0.85 @ 1310nm
 - > 0.95 @ 1550nm

USE IN

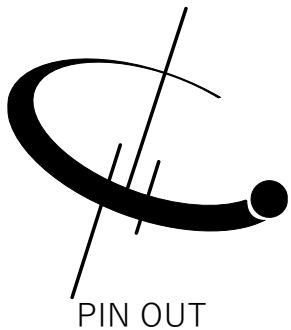
- Forward-path and return-path broadband video transport
- EDFA Monitor

SPECIFICATIONS

GENERAL

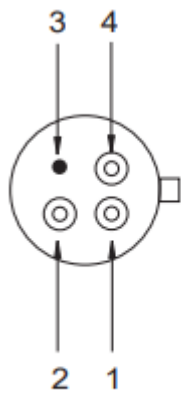
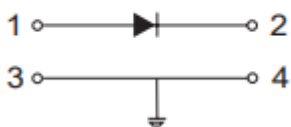
Wavelengths	1100nm to 1600nm
Responsivity	0.85 A/W min @ 1310nm 0.95 A/W min @ 1550nm
Dark Current	5nA typ.
Bandwidth	1 GHz typ
Capacitance	5 pF typ.
Frequency Response	+/- 0.5dB
Back Reflection	<= -40dB





PD-1

Electrical Schematic



Bottom view

RELATED PHOTODIODE

- PD-3



The Optilab PD-3 is an Linear InGaAs PIN photodiode with a multimode fiber pigtail with bandwidth of 3 GHz. Contact Optilab for more detail.

